

**CMTS Architecture Based on Ethernet Interface
Locatable in a Fiber Node**

ABSTRACT

5 A communication device (116, 216, 316, 416) for a communications network
having a first integrated circuit (IC) (141, 244, 344, 444) including one or more
receivers (136, 236, 336) and a first MAC function (140, 240, 340), and a second IC
(139, 242, 342, 442) including one or more transmitters (134, 234, 334) and a second
MAC function (138, 238, 338). The first (141, 244, 344, 444) and second (139, 242,
10 342, 442) IC's are coupleable to a communications network for controlling the
downstream and upstream communications, respectively.

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